PPM

CHEMICAL PRODUCT AND COMPANY INFORMATION

REVISION DATE: 07/28/1994

UN NUMBER- UN1219

PRIMARY APPLICATION- GASLINE ANTIFREEZE

MANUFACTURER- SUN COMPANY, INC.

TEN PENN CENTER 1801 MARKET STREET

PHILADELPHIA

SYNONYMS..... GASLINE ANTIFREEZE

CAS REGISTRY NO: 67-63-0

CAS NAME....: ISOPROPYL ALCOHOL CHEMICAL FAMILY: ALIPHATIC ALCOHOL

INFORMATION

SUPPLIER... MARIA DAYRIT PHONE....: (215) 246-8201

EMERGENCY PHONE NUMBERS (AFTER NORMAL BUSINESS HOURS)

SUN CO.. 1-800-964-8861 CHEMTREC. 1-800-424-9300

# 2. COMPOSITION / INFORMATION ON INGREDIENTS

EXPOSURE GUIDELINES

ACGIH SUN/MFR

COMPONENT/CAS NO. LO% HI% TWA STEL TWA STEL TWA STEL UNIT

LIMITS FOR THE PRODUCT:

NO SPECIFIC LIMIT

ISOPROPYL ALCOHOL

67-63-0

.00 100.0 400 500 400 500

PA 19103-1699

ADDITIONAL EXPOSURE LIMITS ------ GOVERNMENT REGULATION OTHER LIMIT- SEE SECTION 2

### 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW ------

DANGER! FLAMMABLE LIQUID AND VAPOR. HARMFUL IF INHALED. HIGH VAPOR CONCENTRATIONS MAY CAUSE DIZZINESS. MAY CAUSE EYE IRRITATION. HARMFUL OR FATAL IF SWALLOWED. PULMONARY ASPIRATION HAZARD-CAN ENTER LUNGS AND CAUSE DAMAGE.

APPEARANCE-- COLORLESS LIQUID ODOR-- ALCOHOL

POTENTIAL HEALTH EFFECTS -----

PRIMARY ROUTES OF ENTRY- INHALATION(X) SKIN(X) EYE(X) INGESTION(X)

SKIN -----

SKIN ABSORPTION OF MATERIAL MAY PRODUCE SYSTEMIC TOXICITY. MAY CAUSE MILD TO MODERATE IRRITATION WITH PROLONGED OR REPEATED CONTACT. REMOVES NATURAL OILS & FATS FROM SKIN. DERMAL LD50 IN RABBITS IS: 13000 MG/KG.

EYE -----

CONTACT WITH THE EYE MAY CAUSE MODERATE IRRITATION. CORNEAL DAMAGE OR OPACITY.

INGESTION -----

HARMFUL OR FATAL IF SWALLOWED. ORAL LD50 IN RATS IS: 5.05 G/KG. PULMONARY ASPIRATION HAZARD IF SWALLOWED AND/OR VOMITING OCCURS - CAN ENTER LUNGS AND CAUSE DAMAGE.

CARCINOGEN LISTED BY-IARC (NO) NTP (NO) OSHA (NO) ACGIH (NO) OTHER (NO)

PRE-EXISTING MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE-RESPIRATORY, PULMONARY AND LUNG DISORDERS (E.G. ASTHMA-LIKE CONDITION)

## 4. FIRST AID MEASURES

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SKIN -----

WASH WITH SOAP AND WATER UNTIL NO ODOR REMAINS. IF REDNESS OR SWELLING DEVELOPS, OBTAIN MEDICAL ASSISTANCE. IMMEDIATELY REMOVE SOAKED CLOTHING. WASH CLOTHING BEFORE REUSE. DESTROY CONTAMINATED SHOES.

EYE ----

FLUSH WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, OBTAIN MEDICAL ASSISTANCE.

INGESTION ---------

DO NOT INDUCE VOMITING! DO NOT GIVE LIQUIDS! OBTAIN EMERGENCY MEDICAL ATTENTION. SMALL AMOUNTS WHICH ACCIDENTALLY ENTER MOUTH SHOULD BE RINSED OUT UNTIL TASTE OF IT IS GONE.

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# 5. FIRE FIGHTING MEASURES

FLASH POINT: 53 (CC) (DEG. F); 11.7 (CC) (DEG. C) AUTOIGNITION TEMP.: 750 (DEG. F); 399 (DEG. C)

---FLAMMABLE LIMITS IN AIR---

LOWER EXPLOSIVE LIMIT (LEL): 2.0 % VOLUME UPPER EXPLOSIVE LIMIT (UEL): 11.8 % VOLUME

FIRE AND EXPLOSION HAZARDS ------FLAMMABLE LIQUID (FLASH POINT LESS THAN 100F)

EXTINGUISHING-MEDIA ------

WATER SPRAY. ALCOHOL RESISTANT FOAM. DRY CHEMICAL. CARBON DIOXIDE.

SPECIAL FIRE FIGHTING INSTRUCTIONS -----

USE WATER SPRAY. COOL TANK/ CONTAINER. WEAR SELF-CONTAINED BREATHING APPARATUS. WEAR STRUCTURAL FIREFIGHTERS PROTECTIVE CLOTHING.

NFPA/HMIS CLASSIFICATION

HEALTH - 1 / 1 FIRE - 3 / 3 REACTIVITY - 0 / 0

PERSONAL PROTECTION INDEX - X

SPECIFIC HAZARD: FLAMMABLE

HAZARD RATING 0=LEAST 1=SLIGHT 2=MODERATE 3=HIGH 4=EXTREME

# 6. ACCIDENTAL RELEASE MEASURES

PREVENT IGNITION; STOP LEAK; VENTILATE AREA. CONTAIN SPILL. USE PERSONAL PROTECTIVE EQUIPMENT STATED IN SECTION 8. ADVISE EPA; STATE AGENCY IF REQUIRED. ABSORB ON INERT MATERIAL. SHOVEL, SWEEP OR VACUUM SPILL.

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# 7. HANDLING AND STORAGE

KEEP AWAY FROM HEAT, SPARKS AND FLAME. KEEP IN COOL, DRY PLACE. KEEP CONTAINER TIGHTLY CLOSED. KEEP IN WELL VENTILATED SPACE. NFPA CLASS IB STORAGE. CONSULT NFPA AND OSHA CODES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID CONTACT WITH EYES. WASH THOROUGHLY AFTER HANDLING.

## \_\_\_\_\_\_\_\_ 8. EXPOSURE CONTROL / PERSONAL PROTECTION

CONSULT WITH A HEALTH/SAFETY PROFESSIONAL FOR SPECIFIC SELECTION.

VENTILATION --------

USE ONLY WITH ADEQUATE VENTILATION. VENTILATE AS NEEDED TO COMPLY WITH EXPOSURE LIMIT. GENERAL DILUTION VENTILATION ACCEPTABLE. EXPLOSION PROOF VENTILATION EQUIPMENT REQUIRED.

PERSONAL PROTECTIVE EQUIPMENT ------

EYE

SPLASH PROOF CHEMICAL GOGGLES OR FULL FACE SHIELD RECOMMENDED TO PROTECT AGAINST SPLASH OF PRODUCT.

GLOVES -----

PROTECTIVE GLOVES RECOMMENDED WHEN PROLONGED SKIN CONTACT CANNOT BE AVOIDED.

RESPIRATOR ------

CONCENTRATION-IN-AIR DETERMINES PROTECTION NEEDED. USE ONLY NIOSH CERTIFIED RESPIRATORY PROTECTION.

OTHER -----

IF CONTACT IS UNAVOIDABLE, WEAR CHEMICAL RESISTANT CLOTHING. SAFETY SHOWER AND EYE WASH AVAILABILITY RECOMMENDED. LAUNDER SOILED CLOTHES. FOR NON-FIRE EMERGENCIES, POSITIVE PRESSURE SELF-CONTAINED BREATHING

APPARATUS (SCBA) & STRUCTURAL FIREFIGHTERS' PROTECTIVE CLOTHING WILL PROVIDE LIMITED PROTECTION.



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# 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT....: 180 (DEG. F) 82 (DEG. C)
MELTING POINT....: -129 (DEG. F) -89 (DEG. -89 (DEG. C)

SPECIFIC GRAVITY....: 0.79 (WATER=1)

PACKING DENSITY....: N/A (KG/M3)

VAPOR PRESSURE....: 33 (MM HG @ 20 DEG C)
VAPOR DENSITY.....: 2.1 (AIR=1)
SOLUBILITY IN WATER: SOLUBLE (% BY VOLUME)

PH INFORMATION....: N.D. AT CONC. N.D. G/L H2O

% VOLATILES BY VOL..: 100%

EVAPORATION RATE....: 2.4X SLOWER (ETHYL ETHER=1)

OCTANOL/WATER COEFF.: N.D.

APPEARANCE..... COLORLESS LIQUID

ODOR..... ALCOHOL

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MOLECULAR WEIGHT....: N.D. (G/MOLE)

# 10. STABILITY AND REACTIVITY

STABILITY -----

STABLE.

CONDITIONS TO AVOID-

HEAT, SPARKS AND OPEN FLAME

INCOMPATIBLE MATERIALS ------

STRONG OXIDIZING AGENTS; CHLORINE

HAZARDOUS DECOMPOSITION ------

COMBUSTION MAY PRODUCE CARBON MONOXIDE AND OTHER ASPHYIXANTS

POLYMERIZATION ------

WILL NOT OCCUR.

# 11. TOXICOLOGICAL INFORMATION

FOR THE PRODUCT -----

INHALATION: OVEREXPOSURE MAY CAUSE EYE, NOSE, THROAT, AND RESPIRATORY TRACT IRRITATION, CENTRAL NERVOUS SYSTEM (BRAIN) EFFECTS, DIZZINESS, COMA, OR DEATH. SKIN: MILD TOXICITY. PROLONGED/REPEATED CONTACT MAY CAUSE MODERATE IRRITATION. EYE: MODERATE IRRITANT ON CONTACT. MAY CAUSE CORNEAL INJURY. INGESTION: SLIGHTLY TOXIC. LD50 (RAT) 8G/KG. MAY CAUSE HEADACHE, DEPRESSION, COMA, SHOCK. AT HIGH DOSES MAY CAUSE RESPIRATORY FAILURE, DEATH. HARMFUL OR FATAL IF SWALLOWED AND/OR VOMITING OCCURS BECAUSE IT CAN ENTER THE LUNGS AND CAUSE DAMAGE DUE TO PULMONARY ASPIRATION HAZARD.

## ISOPROPYL ALCOHOL (COMPONENT)

INHALATION: OVEREXPOSURE MAY CAUSE EYE, NOSE, THROAT, AND RESPIRATORY TRACT IRRITATION, CENTRAL NERVOUS SYSTEM (BRAIN) EFFECTS, DIZZINESS, COMA. SKIN: PRACTICALLY NON-TOXIC IF ABSORBED. LD50 (RABBIT) 12.8 G/KG

PROLONGED/REPEATED CONTACT MAY CAUSE MODERATE IRRITATION & DERMATITIS. EYE: CONTACT MAY CAUSE SEVERE IRRITATION & CORNEAL INJURY. ORAL: MODERATELY TOXIC. LD50 (RAT) 5.045 G/KG. HARMFUL/FATAL IF SWALLOWED. INGESTION MAY CAUSE GASTROINTESTINAL TRACT IRRITATION, CNS EFFECTS. THE SINGLELETHAL DOSE FOR HUMAN ADULT IS ABOUT 250 ML ALTHOUGH AS LITTLE AS 100 ML CAN BE FATAL; REPORTS OF SERIOUS ILLNESS FROM AS LITTLE AS 10 ML; BIRTH DEFECTS & REPRODUCTIVE EFFECTS FOUND IN ANIMALS

# 12. ECOLOGICAL INFORMATION

AOUATIC TOXICITY -----

NO DATA AVAILABLE.

13. DISPOSAL CONSIDERATIONS

FOLLOW FEDERAL, STATE AND LOCAL REGULATIONS. RCRA HAZARDOUS WASTE. DO NOT FLUSH TO DRAIN/ STORM SEWER. CONTRACT TO AUTHORIZED DISPOSAL SERVICE.

#### 14. TRANSPORTATION INFORMATION

DOT-

PROPER SHIPPING NAME- NOT REGULATED HAZARD CLASS- NOT REGULATED DENTIFICATION NUMBER- NOT REGULATED ABEL REQUIRED- NOT REGULATED

IMDG- PROPER SHIPPING NAME- NO DATA AVAILABLE

IATA- PROPER SHIPPING NAME- NO DATA AVAILABLE

### 15. REGULATORY INFORMATION

SARA 302 THRESHOLD PLANNING QUANTITY. N/A

SARA 304 REPORTABLE QUANTITY ..... N/A

SARA 311 CATEGORIES- IMMEDIATE (ACUTE) HEALTH EFFECTS.. Y

DELAYED (CHRONIC) HEALTH EFFECTS.. N

FIRE HAZARD ..... Y

SUDDEN RELEASE OF PRESSURE HAZARD. N

REACTIVITY HAZARD ..... N

WHEN A PRODUCT AND/OR COMPONENT IS LISTED BELOW, THE REGULATORY LIST ON WHICH IT APPEARS IS INDICATED.

ISOPROPYL ALCOHOL - FL MA MN NJ PA 01 04 05

02=SARA 302/304 03=IARC CARCINOGEN

# SUNOCO ULTRA DRI GASLINE ANTIFREEZE

04=OSHA CARCINOGEN 07=CERCLA 302.4 10=OTHER CARCINOGEN

PA=PENNSYLVANIA RTK MA=MASSACHUSETTS RTK

FL=FLORIDA NY=NEW YORK LA=LOUISIANA 05=ACGIH CARCINOGEN 08=WHMIS CONTROLLED PROD.

NJ=NEW JERSEY RTK

MI=MICHIGAN 406 RI=RHODE ISLAND WV=WEST VIRGINIA

ME=MAINE

CA=CALIFORNIA PROP 65

MN=MINNESOTA RTK

06=NTP CARCINOGEN

IL=ILLINOIS CT=CONNECTICUT

OH=OHIO

THIS PRODUCT OR ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE U.S. TSCA INVENTORY.

# 16. OTHER INFORMATION

WARNING! FLAMMABLE LIQUID AND VAPOR. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. KEEP CONTAINER CLOSED. USE WITH ADEQUATE VENTILATION. MAY BE HARMFUL IF SWALLOWED. DO NOT DRINK. IF SWALLOWED, GIVE ONE OR TWO GLASSES OF WATER IF PERSON IS CONSCIOUS. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN, EMERGENCY ROOM OR POISON CONTROL CENTER IMMEDIATELY. EYE IRRITANT. DO NOT GET INTO EYES. IF EYE CONTACT OCCURS, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION.